

**Listing and Amendments to the Claims**

This listing of claims will replace the claims that were published in the PCT Application and the International Preliminary Examination Report:

1. (currently amended) Method for renewing a symmetric key in a communication network comprising a device of a first type ~~(1)~~ containing:
  - a first symmetric key ~~( $K_E$ )~~ for encrypting the data ~~( $CW$ )~~ to be sent to a device of a second type connected to the network; and
  - said first symmetric key ~~( $K_E$ )~~ encrypted ~~( $E2\{K_N\}(K_E)$ )~~ with a second symmetric network key ~~( $K_N$ )~~ known only by at least one device of a second type connected to said network.the method comprising the steps that consist, for the device of a first type, in:
  - (a) generating a random number ~~( $D$ )~~;
  - (b) computing a new symmetric key ~~( $K'_E$ )~~ as a function of the first symmetric key ~~( $K_E$ )~~ and said random number ~~( $D$ )~~;
  - (c) encrypting the data to be transmitted ~~( $CW$ )~~ with the new symmetric key ~~( $K'_E$ )~~; and
  - (d) transmitting to a device of a second type ~~(2)~~, via said network:
    - the data encrypted with the new symmetric key ~~( $E3\{K'_E\}(CW)$ )~~;
    - the random number ~~( $D$ )~~; and
    - said first symmetric key encrypted with the second symmetric network key ~~( $E2\{K_N\}(K_E)$ )~~.
2. (currently amended) Method according to claim 1, wherein the function ~~( $f$ )~~ used to compute the new symmetric key ~~( $K'_E$ )~~ is a one-way derivation function.
3. (currently amended) Method according to claim 2, wherein the function ~~( $f$ )~~ is a hash or encryption function.

4. (currently amended) Method according to ~~one of the previous~~  
~~claims claim 1~~, also comprising the steps consisting, for the device of a second type  
(2) that receives data transmitted at step (d), in:

(e) decrypting, with the second symmetric network key ( $K_N$ ), the  
encryption ( $E2(K_N)(K_C)$ ) of the first symmetric key ( $K_C$ );

(f) determining, based on the first symmetric key ( $K_C$ ) obtained at step  
(e) and on said random number ( $D$ ), the new symmetric key ( $K'_C$ ); and

(g) decrypting the data received with the new symmetric key ( $K'_C$ ) thus  
obtained.